

The described device allows production of composite material films in any surface area and in unlimited length, the limits being set solely by the width of the strip electrodes used. The device allows the thickness of the film to be varied depending on the spacing of the rollers, and the concentration of the filler to be varied depending on the pulling speed of the strip pulling mechanism. Also, the change in the temperature of the small roller due to the heater allows the films to be obtained with any bonding thermoplastic required.

Abstract of the invention

Facility or device for manufacture of composite material films comprising a strip pulling mechanism, rollers with the first and second strip electrode, rollers for applying the polymer layer, a hollow cylinder for receiving the film, a heater and a current source. The invention is characterized in that it incorporates, for the purpose of modernizing film manufacture technology, a chamber for injection of the filler that contains an atomizer and an electrode which are at an acute angle to one another, and rollers for shaping the composite material film, with the second strip electrode being located in the chamber for injection of the filler.